

# Center for Medical Countermeasures Against Radiation

## DAIT Regulatory Affairs

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# Clinical Research Programs

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- Immune Tolerance Network (ITN)
- Cooperative Clinical Trials in Pediatric Transplantation (CCTPT)
- Clinical Trials in Organ Transplant (CTOT)
- Hematopoietic Stem Cell Transplantation (HSCT)
- Autoimmunity Centers of Excellence (ACE)
- Inner-City Asthma Consortium (ICAC)
- Atopic Dermatitis Vaccinia Network (ADVNI)
- Islet Cell Network
- Center for Medical Countermeasures Against Radiation

# Collaborative Effort

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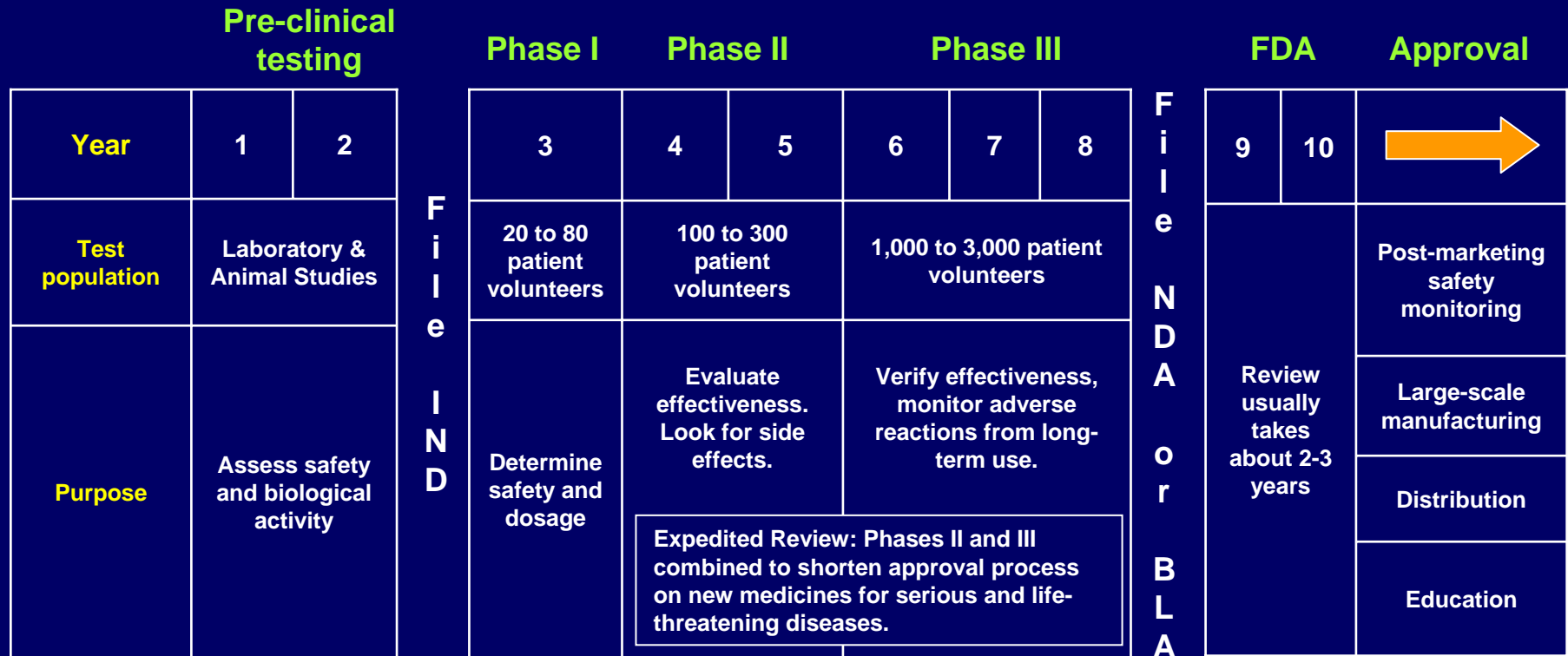
- **DAIT, NIAID, NIH**
- **NCI, NIH**
- **FDA Division of Counterterrorism**
- **CDER/FDA**
- **CBER/FDA**
- **DHHS**
- **DHS**
- **Others**

# Regulatory Affairs

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- **DAIT Staff**
- **Contract Research Organization (CRO)**
- **Individual Consultants**
  - **GLP toxicology**
  - **GMP quality**
  - **GMP facilities**

# Drug Development & Approval Process



# Applicable Regulatory Tools/Strategies

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- **Fast Track Designation**
- **Priority review**
- **Subpart H (Accelerated approval using a surrogate endpoint)**
- **Subpart I (the “Animal Efficacy Rule”)**
- **Orphan Drug Designation**
- **Special FDA Programs (e.g. FDA Division of Counter-terrorism - Liaison)**

# **The “Animal Rule”**

**Approval of Biological Products  
(New Drugs) when Human Efficacy  
Studies are Not Ethical or Feasible**

## **■ Final Rule:**

- 67 FR 37988 (May 31, 2002)**
- 21 CFR § 601.90-95 (biologicals)**
- 21 CFR § 314.600-650 (drugs)**

# Scope of the "Animal Rule"

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- Drugs and biologicals that reduce or prevent serious or life-threatening conditions caused by exposure to lethal or permanently disabling toxic biological, chemical, radiological, or nuclear substances.
- Rule does not apply if product approval can be based on standards described elsewhere in FDA's regulations.



# FDA may approve a product for which...

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- Human safety has been established,  
*and*
- “Animal Rule” requirements are met –  
based on adequate and well-controlled  
animal studies, the results of which  
establish that the products is reasonably  
likely to provide clinical benefit in humans.

# GLP & AWA Requirements

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- All studies subject to this Rule must be conducted in accordance with preexisting requirements under the Good Laboratory Practices (21 CFR §58) regulations and the Animal Welfare Act (7 U.S.C. 2131).
- GLP will be required for the definitive/pivotal animal studies – not necessary for the pilot studies. Also, if the animal study will be mentioned in the label, it should be done according to GLP.

# Animal Study Design Challenges

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- **The label indication.**
  - Pre-exposure/post exposure.
- **Endpoints of animal studies.**
  - IACUC and EU regs.
- **Appropriate challenge dose.**
- **Statistical considerations.**
  - Rodents vs. NHP

# Conclusions

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- **The “Animal Rule” is new to both industry and to the FDA – collaboration is essential for success.**
- **Multiple interactions with FDA**
  - prior to animal efficacy trials, for concurrence with concepts.

# Information Resources

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- **FDA Website**

- <http://www.fda.gov>

- **Small Business Assistance**

- <http://www.fda.gov/cder/about/smallbiz/default.htm>

# Information Resources

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- **IND Regulations: Code of Federal Regulations, Title 21, parts 312 and 50.**
- **ICH E6 Good Clinical Practice: Consolidated Guidance**
  - [www.fda.gov/cder/guidance/959fnl.pdf](http://www.fda.gov/cder/guidance/959fnl.pdf)
- **Formal Meetings with Sponsors and Applicants for PDUFA Products**
  - [www.fda.gov/cder/guidance/2125fnl.pdf](http://www.fda.gov/cder/guidance/2125fnl.pdf)

# Contact Information

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